

# **Victoria M. Virador**

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## **Education**

1996: Ph.D., Food Biochemistry. University of California

1993: M.S., Food Science. University of California

1989: Licenciada en Ciencias Químicas, Universidad Autónoma de Madrid, Spain (M.S., Chemistry)

## **Honors and Awards**

2010-: Member, Editorial Board. World Journal of Orthopaedics

2006- 2011: Performance Awards, NIH.

2008: Session Co-Chair at the First Annual World Congress of Regenerative Medicine and Stem Cell, Foshan, China, Dec 2008.

2008: Exceptional rating at Staff Scientist Quadrennial Review

1996: Travel award to represent U. C. Davis at the Forum of Faculty Roles and Rewards (American Association for Higher Education National Meeting), Atlanta, GA.

1994: George F. Stewart Memorial Scholarship, Jastro-Shields Graduate Research Scholarship, Frozen Food Industry Memorial Scholarship, Cliff and Jane Carpenter Memorial Fellowship

1990-1994: Fulbright Scholar

## **Committees**

2010-: Chair Professional Development Committee. NIH Staff Scientists/Staff Clinicians Organization.

2008: Member of Scientific Committee. NIH Staff Scientists/Staff Clinicians Organization.

2008-2010: Vicepresident Asociación de Padres de Alumnos, Spanish Embassy Educational Program.

## **Invited Scientific Presentations**

2008- First Annual World Congress of Regenerative Medicine and Stem Cell, China  
*Isolation of a mesenchymal cell population from murine dermis that contains progenitors of multiple cell lineages.*

2008- NCI-Medical Oncology Branch lecture.  
*BAG3 and the regulation of cellular stress in cancer cells.*

1999- NIH research festival  
*The regulation of mammalian pigmentation*

1999- International Pigment Cell Meeting, Nagoya, Japan and The Barsh Lab (Genetics, Stanford School of Medicine)

*Bioactive domains and expression patterns of agouti signal protein.*

1997- Instituto de Fermentaciones Industriales, CSIC, Madrid, Spain.

*Natural products in the regulation of mammalian pigmentation*

1997- European Pigment Cell Annual Meeting, Bordeaux, France

*A standardized protocol for assessing in vitro and in vivo melanogenic effects*

1996- American Association for Higher Education national meeting, Atlanta, GA. January 1996

*On how faculty women balance their academic careers and their family obligations.*

1994- American Chemical Society Meeting, Washington DC

*Isolation of the gene encoding grape polyphenol oxidase and study of PPO control with antisense RNA*

## Publications - Reviews and Book Chapters

- **Current and future therapeutic targets of the tumour-host microenvironment.** Jareer Kassis, Emlyn Alejandro, Victoria Virador, and Elise C. Kohn. Book series Cancer Growth and Progression. Series editor. Dr. Hans Kaiser. Volume 15: Integration/interaction of oncologic growth.
- **Sol, amigo y enemigo.** Victoria Virador. Published in the science supplement of the Spanish newspaper 'Heraldo de Aragón'. July 02, 2002. <http://milenio.heraldo.es>.
- **Polyphenol oxidase.** Edna C. Ramirez, John. R. Whitaker and Victoria M. Virador. Handbook of Food Enzymology. Nov 2002. Edited by John Whitaker, Fons Voragen and Dominic Wong. Chapter 39. Pp 509-524.
- Martinez MV, Whitaker JR. The biochemistry and control of enzymatic browning. *Trends in Food Science and Technology*. 6: 195-200, 1995.
- **The role of the microenvironment in cancer progression as studied by three-dimensional in vitro models.** Lauren C. Kimlin, Victoria M. Virador. Invited Review, near submission.

## Publications - Reports

- **The 2010 Staff Scientist and Staff Clinician Mid-Year Training Event.** No 3, p 3. The Dossier, CCR, NCI.
- **The 2010 Staff Scientist and Staff Clinician Mid-Year Training Event.** No 4 pp 4-6. The Dossier, CCR, NCI.

## Publications - Select Original Research Papers

- Virador VM, Reyes Grajeda JP, Blanco-Labra A, Mendiola-Olaya E, Smith GM, Moreno A, Whitaker JR. Cloning, Sequencing, Purification, and Crystal Structure of Grenache (*Vitis vinifera*) Polyphenol Oxidase. *J Agric Food Chem*. 2010 Jan 27; 58(2): 1189-201
- Kassis JN, Virador VM, Guanciale EA, Kimm D, Ho AS, Mishra M, Chuang EY, Cook J, Gius D, Kohn EC. Genomic and phenotypic analysis reveals a key role for CCN1 (CYR61) in BAG3-modulated adhesion and invasion. *J. Pathol.* 218: 495-504, 2009.
- Virador VM, Davidson B, Czechowicz J, Mai A, Kassis J, Kohn EC. The anti-apoptotic activity of BAG3 is restricted by caspases and the proteasome. *PLoS ONE*. 4: e5136, 2009.

- Virador VM, Flores-Obando RE, Berry A, Patel R, Zakhari J, Lo YC, Strain K, Anders J, Cataisson C, Hansen LA, Yuspa SH. The human promyelocytic leukemia protein is a tumor suppressor for murine skin carcinogenesis. *Mol Carcinog.* 2009 Jul; 48(7): 599-609.
- Crigler L, Kazhanie A, Yoon TJ, Zakhari J, Anders J, Taylor B, Virador VM. Isolation of a mesenchymal cell population from murine dermis that contains progenitors of multiple cell lineages. *FASEB J.* 2007 Jul; 21(9):2050-63. Epub 2007 Mar 23.
- Kassis JN, Guanciale EA, Doong H, Virador V, Kohn EC. CAIR-1/BAG-3 modulates cell adhesion and migration by downregulating activity of focal adhesion proteins. *Exp. Cell Res.* 312: 2962-71, 2006.
- Kadekaro AL, Andrade LN, Floeter-Winter LM, Rollag MD, Virador V, Vieira W, Castrucci AM. MT-1 melatonin receptor expression increases the antiproliferative effect of melatonin on S-91 murine melanoma cells. *J. Pineal Res.* 36: 204-11, 2004.
- Hansen LA, Brown D, Virador V, Tanaka T, Andreola F, Strain K, Dancheck B, Riley R, Arbeit JM, De Luca LM, Kogan S, Yuspa SH. A PMLRARA transgene results in a retinoid-deficient phenotype associated with enhanced susceptibility to skin tumorigenesis. *Cancer Res.* 63: 5257-65, 2003.
- Lei TC, Virador VM, Vieira WD, Hearing VJ. A melanocyte-keratinocyte coculture model to assess regulators of pigmentation in vitro. *Anal. Biochem.* 305: 260-8, 2002.
- Scott MC, Wakamatsu K, Ito S, Kadekaro AL, Kobayashi N, Groden J, Kavanagh R, Takakuwa T, Virador V, Hearing VJ, Abdel-Malek ZA. Human melanocortin 1 receptor variants, receptor function and melanocyte response to UV radiation. *J. Cell. Sci.* 115: 2349-55, 2002.
- Virador VM, Muller J, Wu X, Abdel-Malek ZA, Yu ZX, Ferrans VJ, Kobayashi N, Wakamatsu K, Ito S, Hammer JA, Hearing VJ. Influence of alpha-melanocyte-stimulating hormone and ultraviolet radiation on the transfer of melanosomes to keratinocytes. *FASEB J.* 16: 105-7, 2002.
- Lei TC, Virador V, Yasumoto K, Vieira WD, Toyofuku K, Hearing VJ. Stimulation of melanoblast pigmentation by 8-methoxypsoralen:the involvement of microphthalmia-associated transcription factor, the protein kinase A signal pathway, and proteasome-mediated degradation. *J. Invest. Dermatol.* 119: 1341-9, 2002.
- Toyofuku K, Valencia JC, Kushimoto T, Costin GE, Virador VM, Vieira WD, Ferrans VJ, Hearing VJ. The etiology of oculocutaneous albinism (OCA) type II: the pink protein modulates the processing and transport of tyrosinase. *Pigment Cell Res.* 15: 217-24, 2002.
- Yoshimura K, Tsukamoto K, Okazaki M, Virador VM, Lei TC, Suzuki Y, Uchida G, Kitano Y, Harii K. Effects of all-trans retinoic acid on melanogenesis in pigmented skin equivalents and monolayer culture of melanocytes. *J. Dermatol. Sci.* 27 Suppl 1: S68-75, 2001.
- Gómez-Cordovés C, Bartolomé B, Vieira W, Virador VM. Effects of wine phenolics and sorghum tannins on tyrosinase activity and growth of melanoma cells. *J. Agric. Food Chem.* 49: 1620-4, 2001.
- Virador V, Matsunaga N, Matsunaga J, Valencia J, Oldham RJ, Kameyama K, Peck GL, Ferrans VJ, Vieira WD, Abdel-Malek ZA, Hearing VJ. Production of melanocyte-specific antibodies to human melanosomal proteins: expression patterns in normal human skin and in cutaneous pigmented lesions. *Pigment Cell Res.* 14: 289-97, 2001.
- Virador VM, Santis C, Furumura M, Kalbacher H, Hearing VJ. Bioactive motifs of agouti signal protein. *Exp. Cell Res.* 259: 54-63, 2000.
- Matsunaga N, Virador V, Santis C, Vieira WD, Furumura M, Matsunaga J, Kobayashi N, Hearing VJ. In situ localization of agouti signal protein in murine skin using immunohistochemistry with an ASP-specific antibody. *Biochem. Biophys. Res. Commun.* 270: 176-82, 2000.
- Virador VM, Kobayashi N, Matsunaga J, Hearing VJ. A standardized protocol for assessing regulators of pigmentation. *Anal. Biochem.* 270: 207-19, 1999.
- Benathan M, Virador V, Furumura M, Kobayashi N, Panizzon RG, Hearing VJ. Co-regulation of melanin precursors and tyrosinase in human pigment cells: roles of cysteine and glutathione. *Cell. Mol. Biol. (Noisy-le-grand).* 45: 981-90, 1999.
- Potterf SB, Virador V, Wakamatsu K, Furumura M, Santis C, Ito S, Hearing VJ. Cysteine transport in melanosomes from murine melanocytes. *Pigment Cell Res.* 12: 4-12, 1999.

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- Perez-Ilzarbe FJ, Martinez V, Hernandez T, Estrella I. Liquid chromatographic determination of apple pulp procyanidins. *Journal of Liquid Chromatography*. 15: 637-646, 1992.